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FM AMEMBASSY BONN

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DEPARTMENT FOR BLOOM, SCI/AE, PASS TO WHITE HOUSE
FOR TRAIN, CEQ

E.O. 11652: N/A

TAGS: SENV, NATO, GW

SUBJECT: CCMS - ENERGY CONSERVATION TEAM VISIT TO BONN

REF: BONN 9783 (NOTAL)

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1. SUMMARY: U.S. ENERGY CONSERVATION TEAM HAD

EXTREMELY INFORMATIVE DISCUSSIONS WITH OFFICIALS OF MINISTRIES OF ECONOMICS, HOUSING, RESEARCH AND TECHNOLOGY AND GERMAN RESEARCH SOCIETY. MINISTRY OF RESEARCH AND TECHNOLOGY APPEARS TO BE GERMAN AGENCY MOST CONCERNED WITH APPLIED TECHNOLOGY IN ENERGY CONSERVATION FIELD. CRITICAL CONTACT FOR FRG COOPERATION IS DR. WERNER MENDEN. BASIS OF EXCHANGE APPEARS TO BE EXPECTED MINISTRY CONTRACT ON TECHNOLOGIES FOR ENERGY CONSERVATION. END SUMMARY.

2. VISIT BEGAN WITH MEETING WITH ASSISTANT SECRETARY FOR ENERGY (MINISTRY OF ECONOMICS) ULF LANTZKE AND OTHER OFFICIALS OF MOE. DR. LANTZKE EMPHASIZED THAT IN GERMANY GOVERNMENT INTERVENTION TO DEVELOP TECHNOLOGY FOR ENERGY CONSERVATION WAS NOT NECESSARY DUE TO FACT THAT HIGH MARKET PRICE FOR ENERGY WAS ALREADY SUFFICIENT INCENTIVE FOR INDUSTRY TO UTILIZE MOST EFFICIENT ENERGY CONSERVATION TECHNOLOGY. HE NOTED THAT BECAUSE OF HIGH GASOLINE PRICE SELLING POINT FOR GERMAN VEHICLES HAS BEEN GOOD MILEAGE. LANTZKE ALSO STATED THAT THERE WAS DIRECT LINK BETWEEN ENERGY CONSUMPTION AND ECONOMIC GROWTH, GROWTH IN THE LATTER USUALLY LAGGING TWO YEARS BEHIND GROWTH IN THE FORMER.

3. LANTZKE FURTHER EXPRESSED VIEW THAT FRG, HAVING BEEN A NET PETROLEUM IMPORTER FOR DECADES, WAS NOT AS CONCERNED ABOUT POTENTIAL SUPPLY DISRUPTIONS AS U.S. LANTZKE STATED THAT GERMANY COUNTED ON USING COAL AS AN IMPORTANT SOURCE AND THAT HE EXPECTED NUCLEAR POWER TO FILL NEEDS GENERATED BY ENERGY CONSUMPTION GROWTH. LANTZKE ALSO REPORTED THAT LARGE INDUSTRIAL USERS OF ENERGY IN FRG RECEIVED DISCOUNTS BASED ON THE AMOUNT OF CONSUMPTION. (ALUMINUM INDUSTRY WITH LARGEST DISCOUNT EVIDENTLY PAYS 2.5 PFG/KWH WHICH IS APPROXIMATELY THREE TIMES EQUIVALENT COST IN U.S.).

4. LANTZKE REPORTED THAT GERMAN ELECTRIC UTILITIES WERE ATTEMPTING TO DEVELOP NEW METHODS FOR HEAT RECUPERATION IN BUILDINGS. THEY WERE ALSO INVOLVED WITH THE DEVELOPMENT OF NEW AND IMPROVED HEAT PUMPS
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AND INSULATION. LANTZKE THOUGHT THAT RHEINLAND-WESTPHALIA ELECTRIC UTILITY (RWE) WAS PROBABLY THE BEST CONTACT IN THIS RESPECT. LANTZKE STATED THAT HE THOUGHT FRG HAD HIGHER GROWTH RATE IN ELECTRICITY THAN US. IN 50'S GROWTH RATE WAS 2.7 PERCENT; IN 60'S, 3.4; AND IN 70'S IT IS EXPECTED TO BE 4 PERCENT. (US GROWTH RATE FOR ELECTRICITY CONSUMPTION PRESENTLY AVERAGES 6 PERCENT).

5. LANTZKE BOTH IN MORNING SESSION AND AT LUNCH
QUERIED WHAT ENERGY RESEARCH MIGHT BE DONE IN OECD.
HODSOLL STATED THAT, WHILE HE COULD NOT SPEAK
FOR US POLICY IN OECD, CCMS PROJECT WOULD ATTEMPT
TO DEVELOP DEMONSTRATIONS OF AVAILABLE TECHNOLOGY IN
SOLAR, GEO-THERMAL AND ENERGY CONSERVATION AREAS.

6. MEETING WITH LANTZKE WAS FOLLOWED BY SEMINAR
LED BY DR. HENNENHOEFER, CHIEF OFFICER FOR RESEARCH
AND DEVELOPMENT IN ECONOMIC POLICY. U.S. TEAM MADE
PRESENTATION ON CCMS PROJECT AND US ENERGY POLICIES WITH

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SPECIFIC REFERENCE TO ENERGY CONSERVATION. COURT (EPA) NOTED THAT US ENERGY GROWTH RATE CURRENTLY IS 4.5 PERCENT AND THAT ELECTRICITY GROWTH RATE IS SIX PERCENT. HE STATED THAT FROM POINT OF VIEW OF ENERGY CONSERVATION EPA WAS INTERESTED IN IMPROVING AIRCRAFT LOAD FACTORS, ENERGY CONSERVATION IN BUILDINGS, INCREASED USE OF RADIAL TIRES BY AUTOMOBILES, TIGHTER INSULATION STANDARDS, AND MASS TRANSIT SYSTEMS.

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7. HENNENHOEFER STATED THAT THERE WERE THREE TYPES OF INSTITUTIONS WHICH MOE SUPPORTED IN ENERGY RESEARCH FIELD.

A. FEDERAL OFFICE FOR MATERIALS TESTING IN BERLIN (BUNDESANSTALT FUER MATERIAL PRUEFUNG, BAM) WITH RESPECT TO CONSTRUCTION MATERIALS AND INSTALLATION.

B. SEVENTY INDUSTRIAL RESEARCH ASSOCIATIONS UNDER AIF (ARBEITSGEMEINSCHAFT INDUSTRIELLER FORSCHUNG) IN COLOGNE THESE ASSOCIATIONS CONCENTRATE ON PROVIDING RESEARCH SUPPORT TO INDUSTRIES WHICH DO NOT HAVE THEIR OWN RESEARCH CAPABILITY. THEIR AIM IS MORE TO RATIONALIZE INDUSTRY THAN TO CONSERVE USE OF ENERGY.

C. COAL RESEARCH INSTITUTE IN ESSEN (BERGBAU FORSCHUNGSINSTITUTE) (EMPLOYING SEVERAL HUNDRED PEOPLE). HENNENHOEFER ALSO MENTIONED THAT THERE WERE VARIOUS INDUSTRIAL RESEARCH SOCIETIES WHICH PROVIDED FOR TECHNOLOGICAL EXCHANGE WITH RESPECT TO PATENTABLE ITEMS.

8. HENNENHOEFER THEN NOTED THAT GERMAN ELECTRICITY CONSUMPTION HAS DOUBLED EVERY TEN YEARS SINCE 1900. HE ALSO MENTIONED RWE IN ESSEN AS HAVING PRINCIPAL RESEARCH EFFORT WITH RESPECT TO ENERGY CONSERVATION IN BUILDINGS. HENNENHOEFER THOUGHT THAT DR. STOY SHOULD BE PRINCIPAL CONTACT IN THIS RESPECT. HE ALSO MENTIONED PROF. SCHAEFFER (TECHNICAL UNIVERSITY OF MUNICH). RWE ALSO HAS WORK IN PROGRESS REGARDING HIGH VOLTAGE DIRECT CURRENT TRANSMISSION AND BATTERIES.

9. WALTE LOETZ (CHIEF, OFFICE FOR ENVIRONMENT AND ENERGY, MOE) MENTIONED THAT RESEARCH PROGRAMS INVOLVING PROTECTION OF ENVIRONMENT FROM EFFECTS OF POWER GENERATION AND CONSUMPTION INCLUDED:

A. LANDESANSTALT FUER IMMISSIONS - UND BODENNUTZUNGSSCHUTZ IN ESSEN -- DOING RESEARCH WORK

ON STACK GASES.

B. STEAG (STEIN KOHL) ALSO IN ESSEN. STEAG IS CONSTRUCTING IN LUNEN A 150 MW PILOT PLANT EMPLOYING PRECOMBUSTION DE-SULFURIZATION TECHNOLOGY. OBJECT OF PLANT IS TO EVALUATE DE-SULFURIZATION IN MEDIUM SIZE PLANT. (PREVIOUS PILOT PLANTS WERE ONLY OF SMALL SIZE, 10 MW).

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10. IN RESPONSE TO QUERY WITH REGARD TO ENERGY CONSERVATION IN CEMENT, PAPER AND STEEL INDUSTRIES, US TEAM WAS ADVISED THAT BEST CONTACT WAS WITH APPROPRIATE RESEARCH AND INDUSTRIAL ASSOCIATIONS.

11. PLANS FOR ENERGY CONSERVATION RESEARCH IN FRG WERE DESCRIBED BY DR. WERNER MENDEN, CHIEF, OFFICE OF TECHNOLOGICAL RESEARCH AND DEVELOPMENT FOR INDUSTRIAL INNOVATION, MINISTRY OF RESEARCH AND TECHNOLOGY. MENDEN EXPLAINED THAT PRIMARY THRUST OF FRG ADVANCED ENERGY RESEARCH HAS BEEN NUCLEAR. IN 1969, FRG BEGAN RESEARCH ON HIGH POWER ELECTRICAL TRANSPORTATION AND ENERGY CONVERSION AND STORAGE. IN 1972, FRG FURTHER SHIFTED ATTENTION TOWARD RESEARCH ON CONVENTIONAL SYSTEMS, INCLUDING EXPLORATORY WORK ON ENERGY CONSERVATION. PRELIMINARY STUDIES HAVE INDICATED ONLY 30 PERCENT OF FRG TOTAL ENERGY SUPPLY IS PRODUCTIVELY USED. MENDEN INDICATED THAT POWER GENERATION AND TRANSPORTATION WERE PARTICULARLY WASTEFUL. RESULTS WILL SOON APPEAR IN INTERVIEW OF FRG TECHNOLOGY MINISTER EHMKE BY "INDUSTRIE" MAGAZINE.

12. MINISTRY IS ABOUT TO CONTRACT FOR BASIC STUDY ON FRG ENERGY SUPPLY, CONVERSION, TRANSPORTATION, AND UTILIZATION. TITLE OF STUDY WILL BE "TECHNOLOGIES FOR CONSERVATION OF ENERGY." COORDINATING THE STUDY WILL BE FORSCHUNGSGEMEINSCHAFT FUER HOCHSPANNUNG-UND HOCHSTROMTECHNIK (FGH). MENDEN INDICATED THAT FGH IS SIMILAR TO NEW ELECTRIC POWER RESEARCH INSTITUTE IN US, ALTHOUGH WITH A MORE MODEST BUDGET. CURRENT FGH BUDGET IS \$2 MILLION AND WILL GO TO \$3 MILLION IN 1975. THE

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MINISTRY NOW PROVIDES TO FGH GENERAL BUDGET SUPPORT
AND SPECIAL FUNDS FOR HIGH VOLTAGE LABORATORY.
MINISTRY WILL PROVIDE SPECIAL SUPPLEMENT TO FGH FOR
BASIC ENERGY STUDY. (NOTE: STUDY APPEARS ALSO TO
HAVE ELEMENTS OF BOTH STANFORD RESEARCH INSTITUTE AND
BROOKHAVEN STUDIES FOR OFFICE OF SCIENCE AND TECHNOLOGY
AS WELL AS TECHNOLOGY ASSESSMENTS).

13. MENDEN STATED THAT THE MINISTRY WOULD BE PLEASED

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TO SHARE RESULTS OF BASIC STUDY WITH CCMS ENERGY

CONSERVATION PROJECT. IT APPEARS THAT US COULD OFFER RESULTS OF STUDIES NOW UNDERWAY BY CEQ, EPA, INTERIOR, NSF, NBS, AND TRANSPORTATION ON ENERGY CONSERVATION.

14. PRELIMINARY STUDIES HAVE INDICATED FOLLOWING TECHNOLOGIES MAY BE OF INTEREST TO FRG IN ENERGY CONSERVATION EFFORTS:

- RECYCLING OF HOT AND WARM WATER FROM POWER PLANTS, BOILERS, AND EVEN IN HOUSEHOLDS;
- HEAT PIPES;
- HEAT STORAGE;
- INSULATION.

IN POWER CONVERSION FIELD, MENDEN INDICATED DEVELOPMENT OF HIGH TEMPERATURE GAS COOLED REACTORS AND BREEDER REACTORS WOULD RESULT IN BOTH BETTER NUCLEAR FUEL UTILIZATION AND THERMAL EFFICIENCY. HE SAID USE OF HIGH TEMPERATURE REACTOR COOLANTS MIGHT PROVIDE PROCESS HEAT FOR STEELMAKING, RESULTING IN CLEANER, MORE EFFICIENT INDUSTRY. MENDEN ALSO EXPRESSED INTEREST IN THE IMPROVED USE OF FOSSIL FUELS THROUGH DISPERSION OF SMALL MODULE PLANTS TO USE CENTERS. THIS WOULD ALSO FACILITATE USE OF WASTE HEAT, SUCH AS IN HUD JERSEY CITY PROJECT IN US. IN TRANSPORTATION SECTOR, MENDEN FELT MOST FUEL ECONOMIES HAD BEEN REALIZED BECAUSE OF HIGH COST OF GASOLINE. FURTHER FUEL SAVINGS IN TRANSPORTATION IN FRG DEPEND PRIMARILY ON POLICY MEASURES SUCH AS MASS TRANSIT, RESTRICTIONS ON AUTO SIZE OR POWER, ETC.

15. MENDEN COMMENTED ON FRG POSITION ON SOLAR AND GEOTHERMAL ENERGY. HE SAID USE OF SOLAR POWER WOULD PROBABLY BE PERIPHERAL IN GERMANY. ONLY IF PROBLEMS OF RECYCLING ENERGY, HEAT STORAGE, ETC., ARE SOLVED DID MENDEN FEEL THAT SOLAR ENERGY WOULD BECOME IMPORTANT. SOLAR WATER HEATING WOULD BE THE FIRST APPLICATION IN FRG ACCORDING TO MENDEN. THESE INTER-ACTIONS WILL BE STUDIED UNDER FGH CONTRACT. MINISTRY ALSO ENCOURAGING FTA (FOERDERGESELLSCHAFT TECHNISCHER AUSBAU-BUILDING TRADE ORGANIZATION) TO EXPLORE THIS AREA. MENDEN SAID PRELIMINARY STUDY HAS BEEN DONE ON UNCLASSIFIED

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FRG GEOTHERMAL RESOURCES BY FEDERAL AGENCY FOR GEOLOGICAL RESEARCH (BUNDESANSTALT, FUER BODENFORSCHUNG, BFB) IN HANOVER. MENDEN INDICATED THAT POTENTIALLY AVAILABLE HOT WATER IS PROBABLY TOO DEEP TO BE ECONOMICALLY FEASIBLE. HE SAID THE MIDDLE WESTERN PART OF GERMANY APPEARS TO BE THE MOST INTERESTING AREA FOR FURTHER STUDY.

16. DR. MENDEN IS PLANNING TO VISIT US IN SEPTEMBER TO SEE A NUMBER OF FACILITIES IN ENERGY CONVERSION AND APPLICATION. HE EXPRESSED INTEREST IN HEATING/ COOLING SYSTEM DESIGN AT FORT BELVOIR (DOD), MODULAR INTEGRATED UTILITY SYSTEM AT JERSEY CITY (HUD) HEAT STORAGE (AEC, NSF) AND HEAT RECYCLING (AEC, HUD). THIS TRIP COULD BE FOCAL POINT FOR FRG INVOLVEMENT IN CCMS ENERGY CONSERVATION PROJECT. COORDINATED EFFORT BY INTERESTED FEDERAL AGENCIES COULD CONVINCE MENDEN OF MUTUAL BENEFITS TO BE GAINED BY FRG INVOLVEMENT.

17. MINISTRY OF HOUSING REPRESENTATIVE STATED GERMAN BUILDING STANDARDS WERE DEVELOPED IN FIRST INSTANCE BY COMMITTEES COMPOSED OF REPRESENTATIVES FROM INDUSTRY, SCIENCE AND GOVERNMENT (FEDERAL AND STATE) SECTORS. MOST STANDARDS IN THE HOUSING AREA IN FRG WERE VOLUNTARY. HOWEVER, INSULATION STANDARDS HAVE BEEN MADE COMPULSORY BY JOINT DECREES OF FEDERAL STATE GOVERNMENTS. THESE COMPULSORY STANDARDS ARE ENFORCED AT THE STATE LEVEL THROUGH THE BUILDING PERMIT PROCESS. HOUSING MINISTRY OFFICIAL PROEMMEL STATED THAT HOUSING MINISTRY WAS CONTINUALLY DEMONSTRATING ENERGY CONSERVATION TECHNIQUES IN PUBLIC HOUSING PROJECTS; HOWEVER, THEY HAD NO NEW PROJECTS PLANNED AT MOMENT.

18. WITH REGARD TO POWER PLANT AIR POLLUTION CONTROL,

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LOETZ STATED THAT FRG HAD PROMULGATED FEDERAL MINIMUM STANDARDS FOR SULFUR DIOXIDE AND DUST EMISSIONS. MINISTRY OF INTERIOR IS CURRENTLY WORKING ON NEW DUST STANDARDS.

19. IN AFTERNOON, PART OF TEAM SPLIT OFF TO SEE MINISTRY OF HOUSING OFFICIALS. WE LEARNED (FROM WINTER-EFINGER) THAT HOUSING MINISTRY IN PAST HAS CONSTRUCTED LARGE NUMBER OF PILOT PUBLIC HOUSING WHICH UNCLASSIFIED

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INTER ALIA DEMONSTRATE NEW TECHNIQUES FOR ENERGY CONSERVATION.

20. IN LATER DISCUSSION, IT WAS CLEAR THAT THE HOUSING MINISTRY WAS UNDERTAKING A NUMBER OF INTERESTING ENVIRONMENTAL INITIATIVES OUTSIDE OF THE ENERGY CONSERVATION AREA. THESE INCLUDE:
(A) TRAFFIC BANS IN THE DOWNTOWN SECTIONS OF MOST CITIES. THIS HAS RESULTED IN EXTREMELY PLEASANT WALKING AREAS WITH RESTAURANTS AND STORES. THE KEY TO SUCCESSFUL DEVELOPMENT ALONG THESE LINES APPEARS TO BE THE AVAILABILITY OF INEXPENSIVE MASS TRANSIT ON THE CIRCUMFERENCE OF TRAFFIC-FREE ZONE
(B) STRICT CONTROL OVER BUILDING SPECULATION AND THE DEVELOPMENT OF LAND. AT THE MOMENT, THE MAJOR CONTROL IS STRICT LOCAL ZONING COUPLED WITH ADMINISTRATIVE CONTROL OVER CHANGES IN THE PRICE OF NEWLY DEVELOPED LAND. THIS PRICE CONTROL IS DESIGNED TO LIMIT CHANGES IN ZONING AND THE DEVELOPMENT OF OCCUPIED LAND. MINISTRY OFFICIALS STATED THAT THE CONTROLS WERE WORKING

WELL AND WOULD BE EXTENDED IN THE NEAR FUTURE FROM PUBLIC OR URBAN RENEWAL LAND TO ALL LAND SUBJECT TO DEVELOPMENT.

21. IN AFTERNOON SESSION AT GERMAN RESEARCH SOCIETY (DEUTSCHE FORSCHUNGSGEMEINSCHAFT - DFG) HEADQUARTERS, DR. WIERCIMOK (CHIEF OFFICER FOR INTERNATIONAL SCIENTIFIC RELATIONS) AND OTHERS EXPLAINED THAT DFG ENGAGED IN FOLLOWING FIELDS:

- A. GENERAL SCIENTIFIC RESEARCH PROMOTION THROUGH RESEARCH CONTRACT AWARDS.
- B. INTERNATIONAL EXCHANGE.
- C. ADVANCEMENT OF YOUNG SCIENTISTS THROUGH SCHOLARSHIP AID.

ANNUAL BUDGET OF DFG (WHICH CONSIDERS ITSELF "PRIVATE" INSTITUTION SIMILAR TO NSF) IS ABOUT DM400 MILLION, ABOUT ONE-HALF SUPPLIED BY FEDERAL GOVERNMENT. DFG HAS BILATERAL PROGRAM WITH NSF AND WITH SOVIET COUNTER-PART ORGANIZATION. DFG IS PRIMARILY ENGAGED IN BASIC RESEARCH; APPLIED TECHNOLOGY WORK IS CARRIED ON FOR THE MOST PART BY INDUSTRY.

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22. PRINCIPAL DFG PROGRAM OF INTEREST FROM APPLIED TECHNOLOGY POINT OF VIEW INVOLVED DEVELOPMENT BY DAIMLER BENZ AND MAN OF 30-40 PASSENGER ELECTRIC BUSES. BUSES HAVE DIESEL ENGINES WHICH ARE USED AS AUXILIARY POWER SOURCE TO RECHARGE BATTERY SYSTEM, THUS REDUCING BATTERY WEIGHT FROM TWO TONS TO 500 KILOS. PRICE OF VEHICLES IS ABOUT 30 PERCENT ABOVE THAT OF CONVENTIONAL BUS BUT OPERATING COSTS ONLY FRACTION OF LATTER.

23. PRESIDENT AND VICE PRESIDENT OF GERMAN RESEARCH SOCIETY (DFG), PROFESSORS SPEER AND PICK, ACCOMPANIED BY DR. WIERCIMOK, CHIEF INTERNATIONAL SECTION, PLAN VISIT WASHINGTON ON SEPTEMBER 10.

24. EMBASSY COMMENT. WE BELIEVE TEAM VISIT PROVIDED EXCELLENT STIMULUS TO FRG TO AID THEM TO SHARPEN THEIR FOCUS ON ENERGY CONSERVATION PROBLEMS. AS NOTED IN BONN CABLES PRIOR TO REFTEL, THIS TOPIC WILL CUT ACROSS RESPONSIBILITY OF SEVERAL MINISTRIES AND PRESENT PROBLEMS OF INTERNAL COORDINATION WHICH MUST BE SOLVED TO MAKE FRG PARTICIPATION IN CCMS PROJECT MOST EFFECTIVE. WE SHARE TEAM'S EVALUATION OF DR. MENDEN AS EXCELLENT CONTACT FOR US/FRG COOPERATION IN ENERGY FIELD AND HAVE RECOMMENDED IN OTHER COMMUNICATIONS THAT HIS SEPTEMBER VISIT BE FULLY EXPLOITED AS STEP TOWARD DEVELOPMENT OF COOPERATIVE

PROGRAMS IN ENERGY R & D IN ACCORDANCE WITH PRESIDENT'S
ENERGY MESSAGE.
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